condition or stage thereof in a eukaryotic organism comprising the steps of:

- (a) isolating mRNA from cells of one or more eukaryotic organisms which are known to have said disease or condition or a stage thereof (diseased sample), wherein said cells are obtained from, and originate from, a part of said organism distant to the area of said disease, wherein the resulting isolated mRNA is optionally subjected to reverse transcription to obtain isolated cDNA;
- (b) isolating mRNA from corresponding cells of one or more corresponding normal eukaryotic organisms (normal sample), wherein the resulting isolated mRNA is optionally subjected to reverse transcription to obtain isolated cDNA;
- based non-sequence by a separating, (c) separation technique, mRNA species or cDNA species present within each of the resulting isolated mRNA or isolated cDNA of step (a) resulting the (b), wherein step and optionally are species mRNA separated subjected to reverse transcription to obtain separated cDNA species;
- selecting two or more mRNA species or two or (d) the resulting species from more cDNA resulting species or separated mRNA separated cDNA species obtained in step (c), present are which respectively, different level in the normal sample than in

the diseased sample by identifying a signal corresponding to each mRNA species or cDNA species, wherein the resulting selected two or more mRNA species are optionally subjected to reverse transcription to obtain two or more selected cDNA species; and

isolating the resulting two or more selected (e) orresulting two species or selected cDNA species obtained in step (d) to obtain isolated selected mRNA species or isolated selected cDNA species, wherein the resulting isolated selected mRNA species are reverse subjected to optionally transcription to obtain isolated selected cDNA species.

Claim 31. (Amended) The gene transcript pattern probe kit as claimed in Claim 29, further comprising, for comparative purposes, a standard gene transcript pattern obtained by a method comprising the steps of:

- (a) isolating mRNA from cells of one or more test eukaryotic organisms which are known to have said disease or condition or a stage thereof (diseased sample), wherein said cells are obtained from, and originate from, a part of said organism distant to the area of said disease, wherein the resulting isolated mRNA is optionally subjected to reverse transcription to obtain isolated cDNA; and
- (b) hybridizing the resulting isolated mRNA or isolated cDNA of step (a) to the isolated

selected mRNA species or isolated selected cDNA species which are immobilized in the of kit pattern probe transcript of amount and assessing the Claim 29, hybridization so as to obtain said standard wherein pattern, transcript isolated selected mRNA species or isolated selected cDNA species are specific for said disease or condition or stage thereof.

Claim 32. (Twice Amended) A method of preparing a gene transcript pattern probe kit comprising the steps of:

- (a) isolating mRNA from cells of one or more eukaryotic organisms which are known to have a disease or condition or a stage thereof (diseased sample), wherein said cells are obtained from, and originate from, a part of said organism distant to the area of said disease, wherein the resulting isolated mRNA is optionally subjected to reverse transcription to obtain isolated cDNA;
- (b) isolating mRNA from corresponding cells of one or more corresponding normal eukaryotic organisms (normal sample), wherein the resulting isolated mRNA is optionally subjected to reverse transcription to obtain isolated cDNA;
- (c) separating, by a non-sequence based separation technique, mRNA species or cDNA species present within each of the resulting isolated mRNA or isolated cDNA of step (a) and step (b), wherein the resulting

separated mRNA species are optionally subjected to reverse transcription to obtain separated cDNA species;

- selecting two or more mRNA species or two or (d) resulting the from species cDNA resulting species or separated mRNA separated cDNA species obtained in step (c), present are which respectively, different level in the normal sample than in the diseased sample by identifying a signal corresponding to each mRNA species or cDNA species, wherein the resulting selected two optionally species are mRNA more or subjected to reverse transcription to obtain two or more selected cDNA species;
- isolating the resulting two or more selected (e) species or resulting two or mRNA selected cDNA species obtained in step (d) to obtain isolated selected mRNA species or isolated selected cDNA species, wherein the resulting isolated selected mRNA species are reverse subjected to optionally transcription to obtain isolated selected cDNA species; and
- (f) immobilizing the resulting isolated selected mRNA species or isolated selected cDNA species of step (e) on at least one solid support so as to form a gene transcript pattern probe kit.

Claim 33. (Twice Amended) A method of preparing a standard gene transcript pattern characteristic of a

disease or condition or stage thereof of a eukaryotic organism comprising the steps of:

- (a) isolating mRNA from cells of one or more test eukaryotic organisms known to have said disease or condition or stage thereof, wherein said cells are obtained from, and originate from, a part of said organism distant to the area of said disease, wherein the resulting isolated mRNA is optionally subjected to reverse transcription to obtain isolated cDNA; and
- hybridizing the resulting isolated mRNA or (b) isolated cDNA of step (a) to the isolated selected mRNA species or isolated selected cDNA species which are immobilized in the of transcript pattern probe gene amount and assessing the Claim 29, hybridization so as to obtain said standard wherein pattern, transcript gene isolated selected mRNA species or isolated selected cDNA species are specific for said disease or condition or stage thereof.

Claim 34. (Twice Amended) A method of preparing a test gene transcript pattern comprising the steps of:

(a) isolating mRNA from cells of a test eukaryotic organism, wherein said cells are obtained from, and originate from, a part of said organism distant to the area of said disease, wherein the resulting isolated mRNA is optionally subjected to reverse transcription to obtain isolated cDNA; and

hybridizing the resulting isolated mRNA or (b) isolated cDNA of step (a) to the isolated selected mRNA species or isolated selected cDNA species which are immobilized in the kit probe pattern transcript amount ofand assessing the Claim 29, hybridization so as to obtain said test gene transcript pattern, wherein the isolated selected mRNA species or isolated selected species are specific for a desired disease or condition or stage thereof.

Claim 35. (Twice Amended) A method of diagnosing or identifying a disease or condition or stage thereof in a test eukaryotic organism comprising the steps of:

- test of cells mRNA from isolating (a) eukaryotic organism, wherein said cells are obtained from, and originate from, a part of said organism distant to the area of said disease, wherein the resulting isolated mRNA reverse subjected to optionally is transcription to obtain isolated cDNA;
- hybridizing the resulting isolated mRNA or (b) isolated cDNA of step (a) to the isolated selected mRNA species or isolated selected cDNA species which are immobilized in the kit of probe transcript pattern gene of amount assessing the Claim 29, and obtain to as hybridization so hybridization pattern, wherein the isolated selected mRNA species or isolated selected

cDNA species are specific for said disease or condition or stage thereof; and

hybridization resulting comparing the (c) with (b) pattern obtained in step obtained by pattern hybridization hybridizing isolated mRNA or isolated cDNA prepared from corresponding cells from one or more corresponding eukaryotic organisms known to have said disease or condition or stage thereof to the isolated selected mRNA species or isolated selected cDNA species said immobilized gene in are which transcript pattern probe kit and assessing hybridization, to so as amount of correlation of degree determine the indicative of the presence of said disease or condition or stage thereof, and so as to disease identify said diagnose or condition or a stage thereof in said test eukaryotic organism.

Please add the following new claim:

-- Claim 36. The method as claimed in Claim 18, wherein said disease is selected from the group consisting of stomach cancer, lung cancer, breast cancer, prostate gland cancer, bowel cancer and skin cancer. --